



## PCT

 INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
 (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FP03-0354-00	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/015622	International filing date (day/month/year) 05 December 2003 (05.12.2003)	Priority date (day/month/year) 05 December 2002 (05.12.2002)
International Patent Classification (IPC) or national classification and IPC H01M 4/04		
Applicant TDK CORPORATION		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
  - a. ☐ (sent to the applicant and to the International Bureau) a total of \_\_\_\_\_ sheets, as follows:
    - ☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items:
  - ☒ Box No. I Basis of the report
  - ☐ Box No. II Priority
  - ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - ☐ Box No. IV Lack of unity of invention
  - ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - ☒ Box No. VI Certain documents cited
  - ☐ Box No. VII Certain defects in the international application
  - ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 24 June 2004 (24.06.2004)	Date of completion of this report 24 December 2004 (24.12.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/015622

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:

- ☐ international search (under Rules 12.3 and 23.1(b))  
☐ publication of the international application (under Rule 12.4)  
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☒ The international application as originally filed/furnished

☐ the description:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the claims:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ the drawings:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP03/15622

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	2, 3, 5, 6, 8, 9, 16, 17, 19, 20	YES
	Claims	1, 4, 7, 10-15, 18, 21	NO
Inventive step (IS)	Claims	3, 17, 19, 20	YES
	Claims	1, 2, 4-16, 18, 21	NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

## [List of documents]

Document 1: JP 2002-83585 A (Toshiba Corp.), March 22, 2002, Claims 1-8; Par. Nos. [0014], [0027], [0061]-[0076] (Family: none)

Document 2: JP 11-329504 A (NGK Insulators, Ltd.), November 30, 1999, Claims 1-11; Par. Nos. [0029], [0030], [0033]-[0035] (Family: none)

Document 3: JP 2002-25558 A (Samsung SDI Kabushiki Kaisha), January 25, 2002, Claims 1-7, Par. Nos. [0015], [0016] & KR 366344 B

Document 4: JP 5-144475 A (FDK Corp.), June 11, 1993, Par. No. [0016] (Family: none)

Document 5: JP 2000-353517 A (Matsushita Electric Industrial Co., Ltd.), December 19, 2000, Claim 1; examples (Family: none)

Document 6: JP 2000-40504 A (Sony Corp.), February 8, 2000, Claims 1-6, examples (Family: none)

Document 7: JP 2002-231235 A (Shin-Etsu Chemical Co., Ltd.), August 16, 2002, Claims 1-4, examples (Family: none)

## [Explanation]

The subject matter of claims 1, 4, 7, 10-15, 18 and 21 does not appear to be novel or to involve an inventive step based on the descriptions of documents 1-7. Using an electrode active substance, a conductive aid and a binder to first granules, and then dispersing and/or dissolving the formed granules and using them for electrode formation is clearly described in documents 1 and 2, and having an active substance containing layer containing various predetermined ingredients is also described in documents 1-7.

The subject matter of claims 2, 5, 6, 8-11 and 16 does not appear to involve an inventive step based on the descriptions of documents 1-7. Document 3 describes a method for adding a conductive polymer material to the member of a layer containing an electrode active substance.

The novelty and inventive step of claims 3, 17, 19 and 20 cannot be refuted based on the aforesaid documents. Documents 1-7 do not describe or suggest that when a conductive polymer material is added, a precursor monomer is added and treated, nor do they describe or suggest the effect described in the specification which is achieved by satisfying such specified matters.

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.

**PCT/JP03/15622**

**Box No. VI Certain documents cited**

**1. Certain published documents (Rule 70.10)**

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2003-303588 A (E, X)	(24.10.2003)	(06.02.2003)	(07.02.2002)
JP 2003-317794 A (E, X)	(07.11.2003)	(22.04.2002)	

**2. Non-written disclosures (Rule 70.9)**

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)